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PROGRAM LIBRARY

DECUS NO.	8-310
TITLE	BIN PUNCH FOR EXTENDED MEMORY
AUTHOR	Rainer Schongar
COMPANY	Siemens Munich, Germany
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SOURCE LANGUAGE	PAL

BIN PUNCH FOR EXTENDED MEMORY

DECUS Program Library Write-up

DECUS No. 8-310

ABSTRACT

This program is useful for simple loading of tested Fortran programs via Binary loader. The field instructions for the Binary loader are automatically generated by this program. In one field the Binary punch for extended memory shares the core memory with the Binary loader.

USAGE

1. Set Data field to field number where the Bin-Punch will be loaded in.
2. Set instruction field to field number where the Binary Loader resides.
Note: the number of Data field and the number of instruction field must not be the same.
3. Set SR to 7777.
4. Press LOAD ADD key.
5. Set bit 0 to 0. (For High-speed Reader)
6. Press START key.
Trailer will be punched.
Program stops.
7. Set SA to number of fields, from which the program will be punched out.
8. Press CONTINUE key.
Program stops.
9. Set SR to number of blocks to be punched in the current field selected by step 11.
10. Press CONTINUE key.
Program stops.
11. Set ST to this number of field ($NBR = X$) in which the blocks will be punched ($SR = \emptyset\emptyset X \emptyset$).
12. Press CONTINUE key.
Program stops.
13. Set the initial address of the block to be punched into SR.

14. Press CONTINUE key.

Program stops.

15. Set the final address of the block to be punched into SR.

(Note that the final address must be greater than the initial address.)

16. Press CONTINUE key.

The indicated block of data will be punched.

If only one block has been called for, the trailer will punch and the program is ready.

If more than one block has been called for, go back to step 9 or step 13. Continue in this manner until the last block of data has been punched.

/BIN-PUNCH FOR EXTENDED MEMORY

/1.SR: 7600

/2.LOAD ADD

/3.START

/4.SR: NBR OF FIELDS TO BE PUNCHED

/5.SR: NBR OF BLOCKS TO BE PUNCHED IN ONE FIELD

/6.SR (00X0) X=NBR OF MEM.FIELD

/7.SR: IA OF BLOCK

/8.SR: FA OF BLOCK

/9. IF NOT READY, GO TO 5

START=7600

*START

7600	7300	BPUN,	CLA CLL	
7601	6026		PLS	
7602	3320		DCA CKSM	
7603	4262		JMS PLOT	
7604	7402		HLT	
7605	7604		LAS	/NBR OF FIELDS IN ST
7606	7041		CIA	
7607	3332		DCA NF	
7610	7402	BEG,	HLT	
7611	7604		LAS	/NBR OF BLOCKS, THEY ARE IN ONE
7612	7041		CIA	
7613	3321		DCA NB	
7614	1333		TAD CHANGE	
7615	7402		HLT	
7616	7404		OSR	/FIELD-NBR IN SR 00X0
7617	3227		DCA DATFLD	
7620	7402	NXBL,	HLT	
7621	7604		LAS	/IA IN SR
7622	3322		DCA IA	
7623	7402		HLD	
7624	7604		LAS	/FA IN SR
7625	7001		IAC	
7626	3323		DCA FA	
7627	0000	DATFLD,	Ø	
7630	6214		RDF	
7631	1334		TAD C300	
7632	4313		JMS PUN	
7633	7200		CLA	
7634	1322		TAD IA	
7635	7120		STL	
7636	4273	PUNL,	JMS BINP	
7637	1322		TAD IA	
7640	7041		CIA	
7641	1323		TAD FA	
7642	7650		SNA CLA	
7643	5250		JMP MOREBL	
7644	1722		TAD I IA	
7645	7100		CLL	

7646	2322		ISZ IA	
7647	5236		JMP PUNL	
7650	2321	MOREBL,	ISZ NB	
7651	5220		JMP NXBL	
7652	2332		ISZ NF	
7653	5210		JMP BEG	
7654	1320		TAD CKSM	
7655	7100		CLL	
7656	4273		JMS BINP	
7657	4262		JMS PLOT	
7660	7402		HLT	
7661	5200		JMP BPUN	
7662	0000	PLOT,	Ø	
7663	7300		CLA CLL	
7664	1324		TAD M212	/TO PUNCH 212 LEADER TR.CODES
7665	3325		DCA CTRI	
7666	1326		TAD C200	/LEADER TRAILER CODE
7667	4313		JMS PUN	/PUNCH C(AC)
7670	2325		ISZ CTRI	/ANOTHER L-T CODE OR NOT?
7671	5267		JMP .-2	/GO PUNCH ANOTHER
7672	5662		JMP I PLOT	/EXIT
7673	0000	BINP,	Ø	
7674	3327		DCA TEM1	
7675	1327		TAD TEM1	
7676	7012		RTR	
7677	7012		RTR	
7700	7012		RTR	
7701	0330		AND SL7	/FIRST TWO OCTAL DIGITS IN AC 5
7702	4313		JMS PUN	/PUNCH C(AC)
7703	1320		TAD CKSM	
7704	3320		DCA CKSM	
7705	1327		TAD TEM1	
7706	0331		AND SL6	/LAST TWO OCTAL DIGITS IN AC 6
7707	4313		JMS PUN	/PUNCH C(AC)
7710	1320		TAD CKSM	
7711	3320		DCA CKSM	
7712	5673		JMP I BINP	/EXIT
7713	0000	PUN,	Ø	/ROUTINE TO PUNCH C(AC)
7714	6021		PSF	/AND EXIT WITH C(AC)
7715	5314		JMP .-1	/UNALTERED
7716	6026		PLS	/PUNCH IT
7717	5713		JMP I PUN	/EXIT
7720	0000	CKSM,	Ø	
7721	0000	NB,	Ø	
7722	0000	IA,	Ø	
7723	0000	FA,	Ø	
7724	7566	M212,	-212	
7725	0000	CTRI,	Ø	
7726	0200	C200,	200	
7727	0000	TEM1,	Ø	

7730	0177	SL7,	177
7731	0077	SL6,	77
7732	0000	NF,	0
7733	6201	CHANGE,	CDF
7734	0300	C300,	300

BEG	7610
BINP	7673
BPUN	7600
CHANGE	7733
CKSM	7720
CTR1	7725
C200	7726
C300	7734
DATFLD	7627
FA	7723
IA	7722
MOREBL	7650
M212	7724
NB	7721
NF	7732
NXBL	7620
PLOT	7662
PUN	7713
PUNL	7636
SL6	7731
SL7	7730
START	7600
TEM1	7727

